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Jablonski et al.

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[54] **HIGHLY EFFICIENT COLLECTION
OPTICAL SYSTEMS FOR PROVIDING
LIGHT DETECTORS SUCH AS
PHOTODETECTORS AND THE LIKE WITH
HEMISPHERICAL FIELDS OF VIEW**

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Related U.S. Application Data

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[51] Int. Cl.⁶ **G01C 3/08; G02B 5/10**

[52] U.S. Cl. **250/229; 359/853; 359/868;
126/694; 126/695; 356/236**

[58] Field of Search 359/851, 852,
359/853, 857, 868, 869; 126/692, 888,
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[57] **ABSTRACT**

This invention involves a novel egg-shaped hollow dual-compound conical light-ray concentrator with mirror-like inner walls (preferably tandem substantially inverted paraboloidal and ellipsoidal conical sections) for receiving light through one aperture end, as from an integrating sphere, and concentrating and collecting the rays within said walls and directing them to a detector at an opposite aperture end. This construction attains both high collection efficiency and hemispherical angular response.

6 Claims, 1 Drawing Sheet

